GenCore version 5.1.6

OM protein - nucleic search, using frame_plus_p2n model

Run on: June 8, 2004, 01:41:53 ; Search time 56 Seconds
(without alignments)
49.549 Million cell updates/sec

Title: US-09-674-436E-1
Perfect score: 25
Sequence: 1 DILRG 5

Scoring table: BLOSUM62
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Ygapop 10.0 , Ygapext 0.5
Fgapop 6.0 , Fgapext 7.0
Delop 6.0 , Delext 7.0

Searched: 682709 seqs, 277475446 residues

Total number of hits satisfying chosen parameters: 628400

Minimum DB seq length: 0
Maximum DB seq length: 30

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Command line parameters:
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-LOOPEXT=0 -UNITS=bits -START=1 -END=-1 -MATRIX=blosum62 -TRANS=human40.cdi
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-FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database : Issued_Patents_NA:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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c	3	23	92.0	17	4	US-09-866-108A-5918	Sequence 5918, Ap
c	4	23	92.0	25	4	US-09-866-108A-10808	Sequence 10808, A
c	5	23	92.0	25	4	US-09-866-108A-10809	Sequence 10809, A
c	6	23	92.0	25	4	US-09-866-108A-10810	Sequence 10810, A
c	7	23	92.0	25	4	US-09-866-108A-10811	Sequence 10811, A
c	8	23	92.0	25	4	US-09-866-108A-10812	Sequence 10812, A
c	9	23	92.0	25	4	US-09-866-108A-10813	Sequence 10813, A
c	10	23	92.0	25	4	US-09-866-108A-10814	Sequence 10814, A
c	11	23	92.0	25	4	US-09-866-108A-10815	Sequence 10815, A
c	12	23	92.0	25	4	US-09-866-108A-10816	Sequence 10816, A
c	13	23	92.0	25	4	US-09-866-108A-10817	Sequence 10817, A
c	14	23	92.0	25	4	US-09-866-108A-10818	Sequence 10818, A
c	15	23	92.0	26	1	US-08-664-856A-11	Sequence 11, Appl
c	16	23	92.0	26	1	US-08-801-796-11	Sequence 11, Appl
c	17	23	92.0	26	2	US-08-931-877-11	Sequence 11, Appl
c	18	23	92.0	26	2	US-08-664-857A-6	Sequence 6, Appli
c	19	23	92.0	26	3	US-09-069-484-11	Sequence 11, Appl
c	20	23	92.0	26	3	US-09-135-599-6	Sequence 6, Appli
c	21	23	92.0	26	4	US-09-369-744-11	Sequence 11, Appl
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c	26	22	88.0	20	4	US-09-060-299-394	Sequence 394, App
c	27	22	88.0	20	4	US-09-402-923A-394	Sequence 394, App
c	28	22	88.0	24	4	US-09-127-227-3	Sequence 3, Appli
	29	22	88.0	24	4	US-09-127-227-4	Sequence 4, Appli
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c	31	22	88.0	30	5	PCT-US95-07321-3	Sequence 3, Appli
c	32	21	84.0	20	4	US-09-164-714-14	Sequence 14, Appl
	33	21	84.0	21	4	US-09-422-978-9736	Sequence 9736, Ap
	34	21	84.0	27	4	US-09-713-678-22	Sequence 22, Appl
	35	21	84.0	27	4	US-10-002-720-22	Sequence 22, Appl
c	36	20	80.0	19	4	US-09-422-978-6915	Sequence 6915, Ap
c	37	20	80.0	20	3	US-09-058-489-77	Sequence 77, Appl
c	38	20	80.0	20	4	US-09-593-589-61	Sequence 61, Appl
c	39	20	80.0	20	4	US-09-732-199A-41	Sequence 41, Appl
	40	20	80.0	20	4	US-09-060-299-79	Sequence 79, Appl
	41	20	80.0	20	4	US-09-402-923A-79	Sequence 79, Appl
c	42	20	80.0	20	4	US-09-198-452A-2143	Sequence 2143, Ap
	43	20	80.0	20	4	US-09-712-368-21	Sequence 21, Appl
c	44	20	80.0	21	2	US-08-398-590A-20	Sequence 20, Appl
c	45	20	80.0	21	2	US-08-398-590A-24	Sequence 24, Appl

ALIGNMENTS

RESULT 1
US-09-866-108A-5916/c
; Sequence 5916, Application US/09866108A
; Patent No. 6686188
; GENERAL INFORMATION:
; APPLICANT: GU, Yizhong
; APPLICANT: JI, Yonggang
; APPLICANT: PENN, Sharron G.
; APPLICANT: HANZEL, David K.
; APPLICANT: RANK, David R.
; APPLICANT: CHEN, Wensheng
; APPLICANT: SHANNON, Mark
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
; FILE REFERENCE: AEOMICA-7
; CURRENT APPLICATION NUMBER: US/09/866,108A
; CURRENT FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30

; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 15755
; SOFTWARE: Aeomica Sequence Listing Engine
; Patent No. 6686188
; SEQ ID NO 5916
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-866-108A-5916

Alignment Scores:

Pred. No.:	45.1	Length:	17
Score:	23.00	Matches:	4
Percent Similarity:	100.00%	Conservative:	1
Best Local Similarity:	80.00%	Mismatches:	0
Query Match:	92.00%	Indels:	0
DB:	4	Gaps:	0

US-09-674-436E-1 (1-5) x US-09-866-108A-5916 (1-17)

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Db         17 GACCTGCTGAGAGGG 3
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RESULT 2
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; Sequence 5917, Application US/09866108A
; Patent No. 6686188
; GENERAL INFORMATION:
; APPLICANT: GU, Yizhong
; APPLICANT: JI, Yonggang
; APPLICANT: PENN, Sharron G.
; APPLICANT: HANZEL, David K.
; APPLICANT: RANK, David R.
; APPLICANT: CHEN, Wensheng
; APPLICANT: SHANNON, Mark
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
; FILE REFERENCE: AEOMICA-7
; CURRENT APPLICATION NUMBER: US/09/866,108A
; CURRENT FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 15755
; SOFTWARE: Aeomica Sequence Listing Engine
; Patent No. 6686188
; SEQ ID NO 5917
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-866-108A-5917

Alignment Scores:

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Best Local Similarity:	80.00%	Mismatches:	0
Query Match:	92.00%	Indels:	0
DB:	4	Gaps:	0

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Db         16 GACCTGCTGAGAGGG 2
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; Patent No. 6686188
; GENERAL INFORMATION:
; APPLICANT: GU, Yizhong
; APPLICANT: JI, Yonggang
; APPLICANT: PENN, Sharron G.
; APPLICANT: HANZEL, David K.
; APPLICANT: RANK, David R.
; APPLICANT: CHEN, Wensheng
; APPLICANT: SHANNON, Mark
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
; FILE REFERENCE: AEOMICA-7
; CURRENT APPLICATION NUMBER: US/09/866,108A
; CURRENT FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 15755
; SOFTWARE: Aeomica Sequence Listing Engine
; Patent No. 6686188
; SEQ ID NO 5918
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-866-108A-5918

Alignment Scores:

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Percent Similarity:	100.00%	Conservative:	1
Best Local Similarity:	80.00%	Mismatches:	0
Query Match:	92.00%	Indels:	0
DB:	4	Gaps:	0

US-09-674-436E-1 (1-5) x US-09-866-108A-5918 (1-17)

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; Patent No. 6686188
; GENERAL INFORMATION:
; APPLICANT: GU, Yizhong
; APPLICANT: JI, Yonggang
; APPLICANT: PENN, Sharron G.
; APPLICANT: HANZEL, David K.
; APPLICANT: RANK, David R.
; APPLICANT: CHEN, Wensheng
; APPLICANT: SHANNON, Mark
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
; FILE REFERENCE: AEOMICA-7
; CURRENT APPLICATION NUMBER: US/09/866,108A
; CURRENT FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 15755
; SOFTWARE: Aeomica Sequence Listing Engine
; Patent No. 6686188
; SEQ ID NO 10808
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-866-108A-10808

Alignment Scores:

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DB:	4	Gaps:	0

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Db         25 GACCTGCTGAGAGGG 11
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US-09-866-108A-10809/c
; Sequence 10809, Application US/09866108A
; Patent No. 6686188
; GENERAL INFORMATION:
; APPLICANT: GU, Yizhong
; APPLICANT: JI, Yonggang
; APPLICANT: PENN, Sharron G.
; APPLICANT: HANZEL, David K.
; APPLICANT: RANK, David R.
; APPLICANT: CHEN, Wensheng
; APPLICANT: SHANNON, Mark
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
; FILE REFERENCE: AEOMICA-7
; CURRENT APPLICATION NUMBER: US/09/866,108A
; CURRENT FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 15755
; SOFTWARE: Aeomica Sequence Listing Engine
; Patent No. 6686188
; SEQ ID NO 10809
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-866-108A-10809

Alignment Scores:

Pred. No.:	68.8	Length:	25
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Percent Similarity:	100.00%	Conservative:	1
Best Local Similarity:	80.00%	Mismatches:	0
Query Match:	92.00%	Indels:	0
DB:	4	Gaps:	0

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Db         24 GACCTGCTGAGAGGG 10
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; Patent No. 6686188
; GENERAL INFORMATION:
; APPLICANT: GU, Yizhong
; APPLICANT: JI, Yonggang
; APPLICANT: PENN, Sharron G.
; APPLICANT: HANZEL, David K.
; APPLICANT: RANK, David R.
; APPLICANT: CHEN, Wensheng
; APPLICANT: SHANNON, Mark
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
; FILE REFERENCE: AEOMICA-7
; CURRENT APPLICATION NUMBER: US/09/866,108A
; CURRENT FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30

; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 15755
; SOFTWARE: Aeomica Sequence Listing Engine
; Patent No. 6686188
; SEQ ID NO 10810
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-866-108A-10810

Alignment Scores:

Pred. No.:	68.8	Length:	25
Score:	23.00	Matches:	4
Percent Similarity:	100.00%	Conservative:	1
Best Local Similarity:	80.00%	Mismatches:	0
Query Match:	92.00%	Indels:	0
DB:	4	Gaps:	0

US-09-674-436E-1 (1-5) x US-09-866-108A-10810 (1-25)

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Db         23 GACCTGCTGAGAGGG 9
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RESULT 7
US-09-866-108A-10811/c
; Sequence 10811, Application US/09866108A
; Patent No. 6686188
; GENERAL INFORMATION:
; APPLICANT: GU, Yizhong
; APPLICANT: JI, Yonggang
; APPLICANT: PENN, Sharron G.
; APPLICANT: HANZEL, David K.
; APPLICANT: RANK, David R.
; APPLICANT: CHEN, Wensheng
; APPLICANT: SHANNON, Mark
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
; FILE REFERENCE: AEOMICA-7
; CURRENT APPLICATION NUMBER: US/09/866,108A
; CURRENT FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
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; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 15755
; SOFTWARE: Aeomica Sequence Listing Engine
; Patent No. 6686188
; SEQ ID NO 10811
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-866-108A-10811

Alignment Scores:

Pred. No.:	68.8	Length:	25
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Best Local Similarity:	80.00%	Mismatches:	0
Query Match:	92.00%	Indels:	0
DB:	4	Gaps:	0

US-09-674-436E-1 (1-5) x US-09-866-108A-10811 (1-25)

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Db         22 GACCTGCTGAGAGGG 8
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RESULT 8
US-09-866-108A-10812/c
; Sequence 10812, Application US/09866108A
; Patent No. 6686188
; GENERAL INFORMATION:
; APPLICANT: GU, Yizhong
; APPLICANT: JI, Yonggang
; APPLICANT: PENN, Sharron G.
; APPLICANT: HANZEL, David K.
; APPLICANT: RANK, David R.
; APPLICANT: CHEN, Wensheng
; APPLICANT: SHANNON, Mark
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
; FILE REFERENCE: AEOMICA-7
; CURRENT APPLICATION NUMBER: US/09/866,108A
; CURRENT FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 15755
; SOFTWARE: Aeomica Sequence Listing Engine
; Patent No. 6686188
; SEQ ID NO 10812
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-866-108A-10812

Alignment Scores:

Pred. No.:	68.8	Length:	25
Score:	23.00	Matches:	4
Percent Similarity:	100.00%	Conservative:	1
Best Local Similarity:	80.00%	Mismatches:	0
Query Match:	92.00%	Indels:	0
DB:	4	Gaps:	0

US-09-674-436E-1 (1-5) x US-09-866-108A-10812 (1-25)

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Qy          1 AspIleLeuArgGly 5
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Db         21 GACCTGCTGAGAGGG 7
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RESULT 9
US-09-866-108A-10813/c
; Sequence 10813, Application US/09866108A
; Patent No. 6686188
; GENERAL INFORMATION:
; APPLICANT: GU, Yizhong
; APPLICANT: JI, Yonggang
; APPLICANT: PENN, Sharron G.
; APPLICANT: HANZEL, David K.
; APPLICANT: RANK, David R.
; APPLICANT: CHEN, Wensheng
; APPLICANT: SHANNON, Mark
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
; FILE REFERENCE: AEOMICA-7
; CURRENT APPLICATION NUMBER: US/09/866,108A
; CURRENT FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 15755
; SOFTWARE: Aeomica Sequence Listing Engine
; Patent No. 6686188
; SEQ ID NO 10813
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-866-108A-10813

Alignment Scores:

Pred. No.:	68.8	Length:	25
Score:	23.00	Matches:	4
Percent Similarity:	100.00%	Conservative:	1
Best Local Similarity:	80.00%	Mismatches:	0
Query Match:	92.00%	Indels:	0
DB:	4	Gaps:	0

US-09-674-436E-1 (1-5) x US-09-866-108A-10813 (1-25)

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Qy          1 AspIleLeuArgGly 5
              |||:::|||||||||
Db         20 GACCTGCTGAGAGGG 6
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RESULT 10
US-09-866-108A-10814/c
; Sequence 10814, Application US/09866108A
; Patent No. 6686188
; GENERAL INFORMATION:
; APPLICANT: GU, Yizhong
; APPLICANT: JI, Yonggang
; APPLICANT: PENN, Sharron G.
; APPLICANT: HANZEL, David K.
; APPLICANT: RANK, David R.
; APPLICANT: CHEN, Wensheng
; APPLICANT: SHANNON, Mark
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
; FILE REFERENCE: AEOMICA-7
; CURRENT APPLICATION NUMBER: US/09/866,108A
; CURRENT FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 15755
; SOFTWARE: Aeomica Sequence Listing Engine
; Patent No. 6686188
; SEQ ID NO 10814
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-866-108A-10814

Alignment Scores:

Pred. No.:	68.8	Length:	25
Score:	23.00	Matches:	4
Percent Similarity:	100.00%	Conservative:	1
Best Local Similarity:	80.00%	Mismatches:	0
Query Match:	92.00%	Indels:	0
DB:	4	Gaps:	0

US-09-674-436E-1 (1-5) x US-09-866-108A-10814 (1-25)

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Qy          1 AspIleLeuArgGly 5
              |||:::|||||||||
Db         19 GACCTGCTGAGAGGG 5
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RESULT 11
US-09-866-108A-10815/c
; Sequence 10815, Application US/09866108A
; Patent No. 6686188
; GENERAL INFORMATION:
; APPLICANT: GU, Yizhong
; APPLICANT: JI, Yonggang
; APPLICANT: PENN, Sharron G.
; APPLICANT: HANZEL, David K.
; APPLICANT: RANK, David R.
; APPLICANT: CHEN, Wensheng
; APPLICANT: SHANNON, Mark
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
; FILE REFERENCE: AEOMICA-7
; CURRENT APPLICATION NUMBER: US/09/866,108A
; CURRENT FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04

; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 15755
; SOFTWARE: Aeomica Sequence Listing Engine
; Patent No. 6686188
; SEQ ID NO 10815
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-866-108A-10815

Alignment Scores:

Pred. No.:	68.8	Length:	25
Score:	23.00	Matches:	4
Percent Similarity:	100.00%	Conservative:	1
Best Local Similarity:	80.00%	Mismatches:	0
Query Match:	92.00%	Indels:	0
DB:	4	Gaps:	0

US-09-674-436E-1 (1-5) x US-09-866-108A-10815 (1-25)

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Qy          1 AspIleLeuArgGly 5
              ||||:::|||||||||
Db         18 GACCTGCTGAGAGGG 4
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RESULT 12
US-09-866-108A-10816/c
; Sequence 10816, Application US/09866108A
; Patent No. 6686188
; GENERAL INFORMATION:
; APPLICANT: GU, Yizhong
; APPLICANT: JI, Yonggang
; APPLICANT: PENN, Sharron G.
; APPLICANT: HANZEL, David K.
; APPLICANT: RANK, David R.
; APPLICANT: CHEN, Wensheng
; APPLICANT: SHANNON, Mark
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
; FILE REFERENCE: AEOMICA-7
; CURRENT APPLICATION NUMBER: US/09/866,108A
; CURRENT FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 15755
; SOFTWARE: Aeomica Sequence Listing Engine
; Patent No. 6686188
; SEQ ID NO 10816
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-866-108A-10816

Alignment Scores:

Pred. No.:	68.8	Length:	25
Score:	23.00	Matches:	4
Percent Similarity:	100.00%	Conservative:	1
Best Local Similarity:	80.00%	Mismatches:	0
Query Match:	92.00%	Indels:	0
DB:	4	Gaps:	0

US-09-674-436E-1 (1-5) x US-09-866-108A-10816 (1-25)

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Qy          1 AspIleLeuArgGly 5
              ||||:::|||||||||
Db         17 GACCTGCTGAGAGGG 3
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RESULT 13
US-09-866-108A-10817/c
; Sequence 10817, Application US/09866108A
; Patent No. 6686188
; GENERAL INFORMATION:
; APPLICANT: GU, Yizhong
; APPLICANT: JI, Yonggang
; APPLICANT: PENN, Sharron G.
; APPLICANT: HANZEL, David K.
; APPLICANT: RANK, David R.
; APPLICANT: CHEN, Wensheng
; APPLICANT: SHANNON, Mark
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
; FILE REFERENCE: AEOMICA-7
; CURRENT APPLICATION NUMBER: US/09/866,108A
; CURRENT FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 15755
; SOFTWARE: Aeomica Sequence Listing Engine
; Patent No. 6686188
; SEQ ID NO 10817
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-866-108A-10817

Alignment Scores:

Pred. No.:	68.8	Length:	25
Score:	23.00	Matches:	4
Percent Similarity:	100.00%	Conservative:	1
Best Local Similarity:	80.00%	Mismatches:	0
Query Match:	92.00%	Indels:	0
DB:	4	Gaps:	0

US-09-674-436E-1 (1-5) x US-09-866-108A-10817 (1-25)

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Qy          1 AspIleLeuArgGly 5
              |||:::|||||||||
Db         16 GACCTGCTGAGAGGG 2
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RESULT 14
US-09-866-108A-10818/c
; Sequence 10818, Application US/09866108A
; Patent No. 6686188
; GENERAL INFORMATION:
; APPLICANT: GU, Yizhong
; APPLICANT: JI, Yonggang
; APPLICANT: PENN, Sharron G.
; APPLICANT: HANZEL, David K.
; APPLICANT: RANK, David R.
; APPLICANT: CHEN, Wensheng
; APPLICANT: SHANNON, Mark
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
; FILE REFERENCE: AEOMICA-7
; CURRENT APPLICATION NUMBER: US/09/866,108A
; CURRENT FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 15755
; SOFTWARE: Aeomica Sequence Listing Engine
; Patent No. 6686188
; SEQ ID NO 10818
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-866-108A-10818

Alignment Scores:

Pred. No.:	68.8	Length:	25
Score:	23.00	Matches:	4
Percent Similarity:	100.00%	Conservative:	1
Best Local Similarity:	80.00%	Mismatches:	0
Query Match:	92.00%	Indels:	0
DB:	4	Gaps:	0

US-09-674-436E-1 (1-5) x US-09-866-108A-10818 (1-25)

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Qy          1 AspIleLeuArgGly 5
              |||:::|||||||||
Db         15 GACCTGCTGAGAGGG 1
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RESULT 15
US-08-664-856A-11/c
; Sequence 11, Application US/08664856A
; Patent No. 5663071
; GENERAL INFORMATION:
; APPLICANT: BRUCE R. ZETTER AND LERE BAO
; TITLE OF INVENTION: HUMAN THYMOSIN 15 GENE,
; TITLE OF INVENTION: PROTEIN AND USES THEREOF
; NUMBER OF SEQUENCES: 13
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: DIKE, BRONSTEIN, ROBERTS & CUSHMAN
; STREET: 130 WATER STREET
; CITY: BOSTON
; STATE: MA
; COUNTRY: USA
; ZIP: 02019
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSEQ Version 1.5
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/664,856A
; FILING DATE: 17 JUN 1996
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: DAVID, RESNICK S
; REGISTRATION NUMBER: 34,235
; REFERENCE/DOCKET NUMBER: 46507
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617-523-3400
; TELEFAX: 617-523-6440
; TELEX: 200291 STRE
; INFORMATION FOR SEQ ID NO: 11:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 26 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FRAGMENT TYPE:
; ORIGINAL SOURCE:
US-08-664-856A-11

Alignment Scores:

Pred. No.:	71.8	Length:	26
Score:	23.00	Matches:	4
Percent Similarity:	100.00%	Conservative:	1
Best Local Similarity:	80.00%	Mismatches:	0
Query Match:	92.00%	Indels:	0
DB:	1	Gaps:	0

US-09-674-436E-1 (1-5) x US-08-664-856A-11 (1-26)

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Qy          1 AspIleLeuArgGly 5
              |||:::|||||||||
Db         15 GATCTGCTCAGAGGC 1
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Search completed: June 8, 2004, 02:37:12
Job time : 57 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: June 8, 2004, 01:39:13 ; Search time 15.5556 Seconds
(without alignments)
16.594 Million cell updates/sec

Title: US-09-674-436E-1
Perfect score: 25
Sequence: 1 DILRG 5

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 103740

Minimum DB seq length: 0
Maximum DB seq length: 10

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued_Patents_AA:*
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3: /cgn2_6/ptodata/2/iaa/6A_COMB.pep:*
4: /cgn2_6/ptodata/2/iaa/6B_COMB.pep:*
5: /cgn2_6/ptodata/2/iaa/PCTUS_COMB.pep:*
6: /cgn2_6/ptodata/2/iaa/backfiles1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	19	76.0	6	4	US-09-043-877-33	Sequence 33, Appl
2	19	76.0	7	4	US-09-043-877-34	Sequence 34, Appl
3	19	76.0	8	4	US-09-360-545-28	Sequence 28, Appl
4	19	76.0	8	4	US-09-043-877-35	Sequence 35, Appl
5	19	76.0	9	1	US-08-213-124-27	Sequence 27, Appl
6	19	76.0	9	2	US-08-482-651-18	Sequence 18, Appl
7	19	76.0	9	3	US-08-159-339A-315	Sequence 315, App
8	19	76.0	9	3	US-08-660-092-21	Sequence 21, Appl
9	19	76.0	9	4	US-09-160-513-21	Sequence 21, Appl
10	19	76.0	9	4	US-09-043-877-36	Sequence 36, Appl
11	19	76.0	9	4	US-08-591-502B-23	Sequence 23, Appl
12	19	76.0	9	4	US-08-591-502B-32	Sequence 32, Appl
13	19	76.0	9	4	US-09-719-243-20	Sequence 20, Appl
14	19	76.0	10	1	US-08-416-950-3	Sequence 3, Appli
15	19	76.0	10	2	US-08-469-830-3	Sequence 3, Appli
16	19	76.0	10	3	US-08-159-339A-324	Sequence 324, App
17	19	76.0	10	4	US-09-043-877-4	Sequence 4, Appli
18	19	76.0	10	4	US-08-591-502B-3	Sequence 3, Appli
19	18	72.0	7	2	US-08-637-759B-124	Sequence 124, App
20	18	72.0	7	3	US-08-871-355A-124	Sequence 124, App
21	18	72.0	7	4	US-09-201-945-124	Sequence 124, App
22	18	72.0	7	4	US-09-355-160D-9	Sequence 9, Appli
23	18	72.0	8	1	US-08-526-710-4	Sequence 4, Appli
24	18	72.0	8	2	US-08-459-568-75	Sequence 75, Appl
25	18	72.0	8	2	US-08-399-411-75	Sequence 75, Appl
26	18	72.0	8	3	US-08-862-855-4	Sequence 4, Appli
27	18	72.0	8	3	US-08-516-859A-75	Sequence 75, Appl
28	18	72.0	8	3	US-09-226-985-4	Sequence 4, Appli
29	18	72.0	8	4	US-09-227-906-4	Sequence 4, Appli
30	18	72.0	8	4	US-09-586-472-75	Sequence 75, Appl
31	18	72.0	8	4	US-09-528-706-75	Sequence 75, Appl
32	18	72.0	8	4	US-08-475-955-104	Sequence 104, App
33	18	72.0	9	2	US-08-528-057-25	Sequence 25, Appl
34	18	72.0	9	3	US-08-787-091-3	Sequence 3, Appli
35	18	72.0	9	4	US-09-724-566A-101	Sequence 101, App
36	18	72.0	9	4	US-08-234-784B-21	Sequence 21, Appl
37	18	72.0	10	1	US-08-125-746-5	Sequence 5, Appli
38	18	72.0	10	3	US-09-139-762A-48	Sequence 48, Appl
39	18	72.0	10	3	US-09-139-762A-87	Sequence 87, Appl
40	18	72.0	10	4	US-08-475-955-103	Sequence 103, App
41	17	68.0	5	1	US-08-405-933-48	Sequence 48, Appl
42	17	68.0	6	3	US-09-025-819-6	Sequence 6, Appli
43	17	68.0	6	4	US-09-808-126-6	Sequence 6, Appli
44	17	68.0	6	4	US-09-803-951-6	Sequence 6, Appli
45	17	68.0	7	3	US-09-217-609A-9	Sequence 9, Appli

ALIGNMENTS

RESULT 1
US-09-043-877-33
; Sequence 33, Application US/09043877
; Patent No. 6495314
; GENERAL INFORMATION:
; APPLICANT: Kent, Stephen B.H.
; APPLICANT: Muir, Tom W.
; APPLICANT: Dawson, Philip E.
; APPLICANT: Fitzgerald, Michael C.
; TITLE OF INVENTION: PROTEIN SIGNATURE ANALYSIS
; FILE REFERENCE: GRY0039S
; CURRENT APPLICATION NUMBER: US/09/043,877
; CURRENT FILING DATE: 1998-06-19
; PRIOR APPLICATION NUMBER: PCT/US96/15516
; PRIOR FILING DATE: 1996-09-27
; PRIOR APPLICATION NUMBER: 60/004,563
; PRIOR FILING DATE: 1995-09-29
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 33
; LENGTH: 6
; TYPE: PRT
; ORGANISM: Mus musculus
US-09-043-877-33

Query Match 76.0%; Score 19; DB 4; Length 6;
Best Local Similarity 100.0%; Pred. No. 3e+05;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DILR 4
||||
Db 3 DILR 6

RESULT 2
US-09-043-877-34
; Sequence 34, Application US/09043877
; Patent No. 6495314
; GENERAL INFORMATION:
; APPLICANT: Kent, Stephen B.H.
; APPLICANT: Muir, Tom W.
; APPLICANT: Dawson, Philip E.
; APPLICANT: Fitzgerald, Michael C.
; TITLE OF INVENTION: PROTEIN SIGNATURE ANALYSIS
; FILE REFERENCE: GRY0039S
; CURRENT APPLICATION NUMBER: US/09/043,877
; CURRENT FILING DATE: 1998-06-19
; PRIOR APPLICATION NUMBER: PCT/US96/15516
; PRIOR FILING DATE: 1996-09-27
; PRIOR APPLICATION NUMBER: 60/004,563

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;  PRIOR FILING DATE: 1995-09-29
;  NUMBER OF SEQ ID NOS: 37
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 34
;    LENGTH: 7
;    TYPE: PRT
;    ORGANISM: Mus musculus
US-09-043-877-34

  Query Match             76.0%;  Score 19;  DB 4;  Length 7;
  Best Local Similarity   100.0%;  Pred. No. 3e+05;
  Matches    4;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 DILR 4
              ||||
Db          3 DILR 6


RESULT 3
US-09-360-545-28
; Sequence 28, Application US/09360545
; Patent No. 6429014
; GENERAL INFORMATION:
;  APPLICANT: Croteau, Rodney B
;  APPLICANT: Bohlmann, Jorg
;  APPLICANT: Steele, Christopher L
;  APPLICANT: Phillips, Michael A
;  TITLE OF INVENTION: MONOTERPENE SYNTHASES FROM GRAND FIR (ABIES GRANDIS)
;  FILE REFERENCE: wsur13885
;  CURRENT APPLICATION NUMBER: US/09/360,545
;  CURRENT FILING DATE: 1999-07-26
;  EARLIER APPLICATION NUMBER: 60/052,249
;  EARLIER FILING DATE: 1997-11-07
;  EARLIER APPLICATION NUMBER: PCT/US98/14528
;  EARLIER FILING DATE: 1998-07-10
;  NUMBER OF SEQ ID NOS: 107
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 28
;    LENGTH: 8
;    TYPE: PRT
;    ORGANISM: Artificial Sequence
;    FEATURE:
;    OTHER INFORMATION: Description of Artificial Sequence: conserved
;    OTHER INFORMATION: amino acid motif on which the sequence of primer G
;    OTHER INFORMATION: was based wherein Xaa at position 6 represents Phe or Leu
;    FEATURE:
;    NAME/KEY: SITE
;    LOCATION: (1)..(8)
;    OTHER INFORMATION: conserved amino acid sequence on which the
;    OTHER INFORMATION: sequence of primer G was based
US-09-360-545-28

  Query Match             76.0%;  Score 19;  DB 4;  Length 8;
  Best Local Similarity   40.0%;  Pred. No. 3e+05;
  Matches    2;  Conservative    3;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 DILRG 5
              |:::|
Db          1 DVIKG 5


RESULT 4
US-09-043-877-35
; Sequence 35, Application US/09043877
; Patent No. 6495314
; GENERAL INFORMATION:
;  APPLICANT: Kent, Stephen B.H.
;  APPLICANT:  Muir, Tom W.
;  APPLICANT:  Dawson, Philip E.
;  APPLICANT:  Fitzgerald, Michael C.
;  TITLE OF INVENTION: PROTEIN SIGNATURE ANALYSIS
;  FILE REFERENCE: GRY0039S
;  CURRENT APPLICATION NUMBER: US/09/043,877
;  CURRENT FILING DATE:  1998-06-19
;  PRIOR APPLICATION NUMBER: PCT/US96/15516
;  PRIOR FILING DATE: 1996-09-27
;  PRIOR APPLICATION NUMBER: 60/004,563
;  PRIOR FILING DATE: 1995-09-29
;  NUMBER OF SEQ ID NOS: 37
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 35
;    LENGTH: 8
;    TYPE: PRT
;    ORGANISM: Mus musculus
US-09-043-877-35

  Query Match             76.0%;  Score 19;  DB 4;  Length 8;
  Best Local Similarity   100.0%;  Pred. No. 3e+05;
  Matches    4;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 DILR 4
              ||||
Db          3 DILR 6


RESULT 5
US-08-213-124-27
; Sequence 27, Application US/08213124
; Patent No. 5693325
;  GENERAL INFORMATION:
;    APPLICANT:  Kahn, Michael
;    TITLE OF INVENTION:  PEPTIDE VACCINES AND METHODS RELATING
;    TITLE OF INVENTION:  THERETO
;    NUMBER OF SEQUENCES:  27
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  SEED and BERRY
;      STREET:  6300 Columbia Center, 701 Fifth Avenue
;      CITY:  Seattle
;      STATE:  Washington
;      COUNTRY:  USA
;      ZIP:  98104-7092
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/213,124
;      FILING DATE:  15-MAR-1994
;      CLASSIFICATION:  424
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Hermanns, Karl R.
;      REGISTRATION NUMBER:  33,507
;      REFERENCE/DOCKET NUMBER:  670063.411
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (206) 622-4900
;      TELEFAX:  (206) 682-6031
;      TELEX:  3723836 SEEDANDBERRY
;  INFORMATION FOR SEQ ID NO:  27:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  9 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:
;      TOPOLOGY:  linear
US-08-213-124-27

  Query Match             76.0%;  Score 19;  DB 1;  Length 9;
  Best Local Similarity   100.0%;  Pred. No. 3e+05;
  Matches    4;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          2 ILRG 5
              ||||
Db          1 ILRG 4


RESULT 6
```

US-08-482-651-18
; Sequence 18, Application US/08482651
; Patent No. 5874409
; GENERAL INFORMATION:
; APPLICANT: Victoria, Edward J.
; APPLICANT: Marquis, David M.
; TITLE OF INVENTION: aPL IMMUNOREACTIVE PEPTIDES, CONJUGATES
; TITLE OF INVENTION: THEREOF AND METHODS OF TREATMENT FOR aPL ANTIBODY-MEDIATED
; TITLE OF INVENTION: PATHOLOGIES
; NUMBER OF SEQUENCES: 62
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORRISON & FOERSTER
; STREET: 755 PAGE MILL ROAD
; CITY: PALO ALTO
; STATE: CA
; COUNTRY: USA
; ZIP: 94304-1018
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/482,651
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Park, Freddie K.
; REGISTRATION NUMBER: 35,636
; REFERENCE/DOCKET NUMBER: 25231-20061.00
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 813-5600
; TELEFAX: (415) 494-0792
; TELEX: 706141
; INFORMATION FOR SEQ ID NO: 18:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 9 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: xyz (details pg. 16)
; CLONE: 3E11
US-08-482-651-18

Query Match 76.0%; Score 19; DB 2; Length 9;
Best Local Similarity 100.0%; Pred. No. 3e+05;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 ILRG 5
||||
Db 4 ILRG 7

RESULT 7
US-08-159-339A-315
; Sequence 315, Application US/08159339A
; Patent No. 6037135
; GENERAL INFORMATION:
; APPLICANT: Kubo, Ralph T.
; APPLICANT: Grey, Howard M.
; APPLICANT: Sette, Alessandro
; APPLICANT: Celis, Esteban
; TITLE OF INVENTION: HLA Binding peptides and Their
; TITLE OF INVENTION: Uses
; NUMBER OF SEQUENCES: 1254
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew LLP
; STREET: Two Embarcadero Center, Eighth Floor
; CITY: San Francisco
; STATE: CA
; COUNTRY: USA
; ZIP: 94111-3834
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSEQ for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/159,339A
; FILING DATE: 29-NOV-1993
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/926,666
; FILING DATE: 07-AUG-1992
; APPLICATION NUMBER: US 08/027,746
; FILING DATE: 05-MAR-1993
; APPLICATION NUMBER: US 08/103,396
; FILING DATE: 06-AUG-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Weber, Ellen Lauver
; REGISTRATION NUMBER: 32,762
; REFERENCE/DOCKET NUMBER: 018623-005030US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 576-0200
; TELEFAX: (415) 576-0300
; TELEX:
; INFORMATION FOR SEQ ID NO: 315:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 9 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-159-339A-315

Query Match 76.0%; Score 19; DB 3; Length 9;
Best Local Similarity 100.0%; Pred. No. 3e+05;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 ILRG 5
||||
Db 1 ILRG 4

RESULT 8
US-08-660-092-21
; Sequence 21, Application US/08660092
; Patent No. 6207160
; GENERAL INFORMATION:
; APPLICANT: Victoria, Edward J.
; APPLICANT: Marquis, David M.
; APPLICANT: Jones, David S.
; APPLICANT: Yu, Lin
; TITLE OF INVENTION: aPL IMMUNOREACTIVE PEPTIDES, CONJUGATES
; TITLE OF INVENTION: THEREOF AND METHODS OF TREATMENT FOR aPL ANTIBODY-MEDIATED
; TITLE OF INVENTION: PATHOLOGIES
; NUMBER OF SEQUENCES: 216
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORRISON & FOERSTER
; STREET: 755 PAGE MILL ROAD
; CITY: PALO ALTO
; STATE: CA
; COUNTRY: USA
; ZIP: 94304-1018
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/660,092
; FILING DATE: 06-JUN-1996
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Park, Freddie K.

```
;      REGISTRATION NUMBER:  35,636
;      REFERENCE/DOCKET NUMBER:  25231-20061.20
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (415) 813-5600
;      TELEFAX:  (415) 494-0792
;      TELEX:  706141
;  INFORMATION FOR SEQ ID NO:  21:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  9 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    IMMEDIATE SOURCE:
;      LIBRARY:  xyz (details pg. 16)
;      CLONE:  3E11
US-08-660-092-21

  Query Match           76.0%;  Score 19;  DB 3;  Length 9;
  Best Local Similarity  100.0%;  Pred. No. 3e+05;
  Matches    4;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          2 ILRG 5
              ||||
Db          4 ILRG 7


RESULT 9
US-09-160-513-21
; Sequence 21, Application US/09160513
; Patent No. 6410775
;  GENERAL INFORMATION:
;    APPLICANT:  Victoria, Edward J.
;    APPLICANT:  Marquis, David M.
;    APPLICANT:  Jones, David S.
;    APPLICANT:  Yu, Lin
;    TITLE OF INVENTION:  aPL IMMUNOREACTIVE PEPTIDES, CONJUGATES THEREOF AND METHODS O
;    NUMBER OF SEQUENCES:  225
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  MORRISON & FOERSTER
;      STREET:  755 PAGE MILL ROAD
;      CITY:  PALO ALTO
;      STATE:  CA
;      COUNTRY:  USA
;      ZIP:  94304-1018
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/09/160,513
;      FILING DATE:  1998-DEC-24
;      CLASSIFICATION:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  CATHERINE M. POLIZZI
;      REGISTRATION NUMBER:  40,130
;      REFERENCE/DOCKET NUMBER:  25231-20061.01
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (650) 813-5600
;      TELEFAX:  (650) 494-0792
;      TELEX:  706141
;  INFORMATION FOR SEQ ID NO:  21:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  9 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    IMMEDIATE SOURCE:
;      LIBRARY:  xyz
;      CLONE:  3E11
US-09-160-513-21

  Query Match           76.0%;  Score 19;  DB 4;  Length 9;
  Best Local Similarity  100.0%;  Pred. No. 3e+05;
  Matches    4;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          2 ILRG 5
              ||||
Db          4 ILRG 7


RESULT 10
US-09-043-877-36
; Sequence 36, Application US/09043877
; Patent No. 6495314
; GENERAL INFORMATION:
;  APPLICANT: Kent, Stephen B.H.
;  APPLICANT:  Muir, Tom W.
;  APPLICANT:  Dawson, Philip E.
;  APPLICANT:  Fitzgerald, Michael C.
;  TITLE OF INVENTION: PROTEIN SIGNATURE ANALYSIS
;  FILE REFERENCE: GRY0039S
;  CURRENT APPLICATION NUMBER: US/09/043,877
;  CURRENT FILING DATE:  1998-06-19
;  PRIOR APPLICATION NUMBER: PCT/US96/15516
;  PRIOR FILING DATE: 1996-09-27
;  PRIOR APPLICATION NUMBER: 60/004,563
;  PRIOR FILING DATE: 1995-09-29
;  NUMBER OF SEQ ID NOS: 37
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 36
;   LENGTH: 9
;   TYPE: PRT
;   ORGANISM: Mus musculus
US-09-043-877-36

  Query Match           76.0%;  Score 19;  DB 4;  Length 9;
  Best Local Similarity  100.0%;  Pred. No. 3e+05;
  Matches    4;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 DILR 4
              ||||
Db          3 DILR 6


RESULT 11
US-08-591-502B-23
; Sequence 23, Application US/08591502B
; Patent No. 6607727
;  GENERAL INFORMATION:
;       APPLICANT: Chisari, Francis V.
;       TITLE OF INVENTION: Peptides for Inducing Cytotoxic T
;                           Lymphocyte Responses to Hepatitis B Virus
;       NUMBER OF SEQUENCES: 99
;       CORRESPONDENCE ADDRESS:
;            ADDRESSEE: Townsend and Townsend and Crew LLP
;            STREET: Two Embarcadero Center, Eighth Floor
;            CITY: San Francisco
;            STATE: California
;            COUNTRY: USA
;            ZIP: 94111-3834
;       COMPUTER READABLE FORM:
;            MEDIUM TYPE: Floppy disk
;            COMPUTER: IBM PC compatible
;            OPERATING SYSTEM: PC-DOS/MS-DOS
;            SOFTWARE: PatentIn Release #1.0, Version #1.25
;       CURRENT APPLICATION DATA:
;            APPLICATION NUMBER: US/08/591,502B
;            FILING DATE: 20-May-1996
;            CLASSIFICATION: <Unknown>
;       PRIOR APPLICATION DATA:
;            APPLICATION NUMBER: US 07/749,540
;            FILING DATE: 26-AUG-1991
;            APPLICATION NUMBER: US 07/935,898
;            FILING DATE: 26-AUG-1992
;            APPLICATION NUMBER: US 08/100,870
```

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;             FILING DATE: 02-AUG-1993
;             APPLICATION NUMBER: WO PCT/US94/08685
;             FILING DATE: 01-AUG-1994
;       ATTORNEY/AGENT INFORMATION:
;             NAME: Weber, Ellen Lauver
;             REGISTRATION NUMBER: 32,762
;             REFERENCE/DOCKET NUMBER: 014740-000230US
;       TELECOMMUNICATION INFORMATION:
;             TELEPHONE: (415) 576-0200
;             TELEFAX: (415) 576-0300
;   INFORMATION FOR SEQ ID NO: 23:
;       SEQUENCE CHARACTERISTICS:
;             LENGTH: 9 amino acids
;             TYPE: amino acid
;             STRANDEDNESS: single
;             TOPOLOGY: linear
;       MOLECULE TYPE: peptide
;       SEQUENCE DESCRIPTION: SEQ ID NO: 23:
US-08-591-502B-23

  Query Match             76.0%;  Score 19;  DB 4;  Length 9;
  Best Local Similarity   100.0%;  Pred. No. 3e+05;
  Matches    4;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          2 ILRG 5
              ||||
Db          2 ILRG 5


RESULT 12
US-08-591-502B-32
; Sequence 32, Application US/08591502B
; Patent No. 6607727
;   GENERAL INFORMATION:
;       APPLICANT: Chisari, Francis V.
;       TITLE OF INVENTION: Peptides for Inducing Cytotoxic T
;                           Lymphocyte Responses to Hepatitis B Virus
;       NUMBER OF SEQUENCES: 99
;       CORRESPONDENCE ADDRESS:
;             ADDRESSEE: Townsend and Townsend and Crew LLP
;             STREET: Two Embarcadero Center, Eighth Floor
;             CITY: San Francisco
;             STATE: California
;             COUNTRY: USA
;             ZIP: 94111-3834
;       COMPUTER READABLE FORM:
;             MEDIUM TYPE: Floppy disk
;             COMPUTER: IBM PC compatible
;             OPERATING SYSTEM: PC-DOS/MS-DOS
;             SOFTWARE: PatentIn Release #1.0, Version #1.25
;       CURRENT APPLICATION DATA:
;             APPLICATION NUMBER: US/08/591,502B
;             FILING DATE: 20-May-1996
;             CLASSIFICATION: <Unknown>
;       PRIOR APPLICATION DATA:
;             APPLICATION NUMBER: US 07/749,540
;             FILING DATE: 26-AUG-1991
;             APPLICATION NUMBER: US 07/935,898
;             FILING DATE: 26-AUG-1992
;             APPLICATION NUMBER: US 08/100,870
;             FILING DATE: 02-AUG-1993
;             APPLICATION NUMBER: WO PCT/US94/08685
;             FILING DATE: 01-AUG-1994
;       ATTORNEY/AGENT INFORMATION:
;             NAME: Weber, Ellen Lauver
;             REGISTRATION NUMBER: 32,762
;             REFERENCE/DOCKET NUMBER: 014740-000230US
;       TELECOMMUNICATION INFORMATION:
;             TELEPHONE: (415) 576-0200
;             TELEFAX: (415) 576-0300
;   INFORMATION FOR SEQ ID NO: 32:
;       SEQUENCE CHARACTERISTICS:
;             LENGTH: 9 amino acids
;             TYPE: amino acid
;             STRANDEDNESS: single
;             TOPOLOGY: linear
;       MOLECULE TYPE: peptide
;       SEQUENCE DESCRIPTION: SEQ ID NO: 32:
US-08-591-502B-32

  Query Match             76.0%;  Score 19;  DB 4;  Length 9;
  Best Local Similarity   100.0%;  Pred. No. 3e+05;
  Matches    4;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          2 ILRG 5
              ||||
Db          2 ILRG 5


RESULT 13
US-09-719-243-20
; Sequence 20, Application US/09719243
; Patent No. 6682741
; GENERAL INFORMATION:
;  APPLICANT: National Institutes of Health
;  TITLE OF INVENTION: B2 Microglobulin Fusion Proteins and High Affinity
;  TITLE OF INVENTION:  Variants
;  FILE REFERENCE: 52590
;  CURRENT APPLICATION NUMBER: US/09/719,243
;  CURRENT FILING DATE:  2001-05-21
;  PRIOR APPLICATION NUMBER: 60/088,813
;  PRIOR FILING DATE: 1998-06-10
;  NUMBER OF SEQ ID NOS: 20
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 20
;   LENGTH: 9
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence: influenza NP
;   OTHER INFORMATION: 265-273
US-09-719-243-20

  Query Match             76.0%;  Score 19;  DB 4;  Length 9;
  Best Local Similarity   100.0%;  Pred. No. 3e+05;
  Matches    4;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          2 ILRG 5
              ||||
Db          1 ILRG 4


RESULT 14
US-08-416-950-3
; Sequence 3, Application US/08416950
; Patent No. 5780036
;  GENERAL INFORMATION:
;    APPLICANT:  CHISARI, Francis V.
;    TITLE OF INVENTION:  PEPTIDES FOR INDUCING CYTOTOXIC T
;    TITLE OF INVENTION:  LYMPHOCYTE RESPONSES TO HEPATITIS B VIRUS
;    NUMBER OF SEQUENCES:  11
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Townsend and Townsend Khourie and Crew
;      STREET:  One Market Plaza, Steuart Street Tower
;      CITY:  San Francisco
;      STATE:  CA
;      COUNTRY:  U.S.A.
;      ZIP:  94105-1492
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/416,950
;      FILING DATE:
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;       CLASSIFICATION:  424
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  US
;       FILING DATE:
;       APPLICATION NUMBER:  US 07/935,898
;       FILING DATE:  26-AUG-1992
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  US 07/749,540
;       FILING DATE:  26-AUG-1991
;     ATTORNEY/AGENT INFORMATION:
;       NAME:  Parmelee, Steven W.
;       REGISTRATION NUMBER:  31,990
;       REFERENCE/DOCKET NUMBER:  14740-2-2
;     TELECOMMUNICATION INFORMATION:
;       TELEPHONE:  (206) 467-9600
;       TELEFAX:  (415) 543-5043
;   INFORMATION FOR SEQ ID NO:  3:
;     SEQUENCE CHARACTERISTICS:
;       LENGTH:  10 amino acids
;       TYPE:  amino acid
;       STRANDEDNESS:  single
;       TOPOLOGY:  linear
;     MOLECULE TYPE:  peptide
US-08-416-950-3

  Query Match             76.0%;  Score 19;  DB 1;  Length 10;
  Best Local Similarity   100.0%;  Pred. No. 1.6e+02;
  Matches    4;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          2 ILRG 5
              ||||
Db          1 ILRG 4


RESULT 15
US-08-469-830-3
; Sequence 3, Application US/08469830
; Patent No. 5932224
;  GENERAL INFORMATION:
;     APPLICANT:  CHISARI, Francis V.
;     TITLE OF INVENTION:  PEPTIDES FOR INDUCING CYTOTOXIC T
;     TITLE OF INVENTION:  LYMPHOCYTE RESPONSES TO HEPATITIS B VIRUS
;     NUMBER OF SEQUENCES:  11
;     CORRESPONDENCE ADDRESS:
;       ADDRESSEE:  Townsend and Townsend Khourie and Crew
;       STREET:  One Market Plaza, Steuart Street Tower
;       CITY:  San Francisco
;       STATE:  CA
;       COUNTRY:  U.S.A.
;       ZIP:  94105-1492
;     COMPUTER READABLE FORM:
;       MEDIUM TYPE:  Floppy disk
;       COMPUTER:  IBM PC compatible
;       OPERATING SYSTEM:  PC-DOS/MS-DOS
;       SOFTWARE:  PatentIn Release #1.0, Version #1.25
;     CURRENT APPLICATION DATA:
;       APPLICATION NUMBER:  US/08/469,830
;       FILING DATE:  06-JUN-1995
;       CLASSIFICATION:  424
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  US 08/100,870
;       FILING DATE:  02-AUG-1993
;       APPLICATION NUMBER:  US 07/935,898
;       FILING DATE:  26-AUG-1992
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  US 07/749,540
;       FILING DATE:  26-AUG-1991
;     ATTORNEY/AGENT INFORMATION:
;       NAME:  Parmelee, Steven W.
;       REGISTRATION NUMBER:  31,990
;       REFERENCE/DOCKET NUMBER:  14740-2-2
;     TELECOMMUNICATION INFORMATION:
;       TELEPHONE:  (206) 467-9600
;       TELEFAX:  (415) 543-5043
;   INFORMATION FOR SEQ ID NO:  3:
;     SEQUENCE CHARACTERISTICS:
;       LENGTH:  10 amino acids
;       TYPE:  amino acid
;       STRANDEDNESS:  single
;       TOPOLOGY:  linear
;     MOLECULE TYPE:  peptide
US-08-469-830-3

  Query Match             76.0%;  Score 19;  DB 2;  Length 10;
  Best Local Similarity   100.0%;  Pred. No. 1.6e+02;
  Matches    4;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          2 ILRG 5
              ||||
Db          1 ILRG 4


Search completed:  June  8, 2004, 02:36:06
Job time :  16.5556 secs
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GenCore version 5.1.6

OM protein - protein search, using sw model

Run on: June 8, 2004, 01:39:13 ; Search time 12.4444 Seconds
(without alignments)
16.594 Million cell updates/sec

Title: US-09-674-436E-2
Perfect score: 19
Sequence: 1 ILRG 4

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 103740

Minimum DB seq length: 0
Maximum DB seq length: 10

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued_Patents_AA:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	19	100.0	9	1	US-08-213-124-27	Sequence 27, Appl
2	19	100.0	9	2	US-08-482-651-18	Sequence 18, Appl
3	19	100.0	9	3	US-08-159-339A-315	Sequence 315, App
4	19	100.0	9	3	US-08-660-092-21	Sequence 21, Appl
5	19	100.0	9	4	US-09-160-513-21	Sequence 21, Appl
6	19	100.0	9	4	US-08-591-502B-23	Sequence 23, Appl
7	19	100.0	9	4	US-08-591-502B-32	Sequence 32, Appl
8	19	100.0	9	4	US-09-719-243-20	Sequence 20, Appl
9	19	100.0	10	1	US-08-416-950-3	Sequence 3, Appli
10	19	100.0	10	2	US-08-469-830-3	Sequence 3, Appli
11	19	100.0	10	3	US-08-159-339A-324	Sequence 324, App
12	19	100.0	10	4	US-08-591-502B-3	Sequence 3, Appli
13	18	94.7	8	1	US-08-526-710-4	Sequence 4, Appli
14	18	94.7	8	3	US-08-862-855-4	Sequence 4, Appli
15	18	94.7	8	3	US-09-226-985-4	Sequence 4, Appli
16	18	94.7	8	4	US-09-227-906-4	Sequence 4, Appli
17	18	94.7	10	1	US-08-125-746-5	Sequence 5, Appli
18	17	89.5	5	1	US-08-405-933-48	Sequence 48, Appl
19	17	89.5	8	3	US-08-925-002-46	Sequence 46, Appl
20	17	89.5	8	4	US-09-314-268-170	Sequence 170, App
21	17	89.5	8	4	US-09-910-552-46	Sequence 46, Appl
22	16	84.2	7	1	US-08-066-325-150	Sequence 150, App
23	16	84.2	9	2	US-08-853-623D-12	Sequence 12, Appl
24	16	84.2	9	3	US-08-159-339A-316	Sequence 316, App
25	16	84.2	10	3	US-08-159-339A-295	Sequence 295, App
26	15	78.9	4	1	US-08-461-611-39	Sequence 39, Appl
27	15	78.9	4	3	US-08-901-344-5	Sequence 5, Appli
28	15	78.9	4	3	US-09-357-952-55	Sequence 55, Appl
29	15	78.9	4	4	US-09-521-650-55	Sequence 55, Appl
30	15	78.9	4	4	US-09-168-888-55	Sequence 55, Appl
31	15	78.9	4	4	US-09-082-358B-77	Sequence 77, Appl
32	15	78.9	5	1	US-08-066-325-148	Sequence 148, App
33	15	78.9	5	3	US-08-278-251-7	Sequence 7, Appli
34	15	78.9	5	3	US-09-357-952-101	Sequence 101, App
35	15	78.9	5	3	US-09-357-952-102	Sequence 102, App
36	15	78.9	5	4	US-09-057-052-2	Sequence 2, Appli
37	15	78.9	5	4	US-09-521-650-101	Sequence 101, App
38	15	78.9	5	4	US-09-521-650-102	Sequence 102, App
39	15	78.9	5	4	US-09-168-888-101	Sequence 101, App
40	15	78.9	5	4	US-09-168-888-102	Sequence 102, App
41	15	78.9	5	4	US-09-695-466-2	Sequence 2, Appli
42	15	78.9	5	4	US-09-717-364A-36	Sequence 36, Appl
43	15	78.9	5	5	PCT-US95-03236-35	Sequence 35, Appl
44	15	78.9	5	6	5496721-2	Patent No. 5496721
45	15	78.9	6	1	US-08-191-571-17	Sequence 17, Appl

ALIGNMENTS

```
RESULT 1
US-08-213-124-27
; Sequence 27, Application US/08213124
; Patent No. 5693325
;  GENERAL INFORMATION:
;    APPLICANT:  Kahn, Michael
;    TITLE OF INVENTION:  PEPTIDE VACCINES AND METHODS RELATING
;    TITLE OF INVENTION:  THERETO
;    NUMBER OF SEQUENCES:  27
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  SEED and BERRY
;      STREET:  6300 Columbia Center, 701 Fifth Avenue
;      CITY:  Seattle
;      STATE:  Washington
;      COUNTRY:  USA
;      ZIP:  98104-7092
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/213,124
;      FILING DATE:  15-MAR-1994
;      CLASSIFICATION:  424
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Hermanns, Karl R.
;      REGISTRATION NUMBER:  33,507
;      REFERENCE/DOCKET NUMBER:  670063.411
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (206) 622-4900
;      TELEFAX:  (206) 682-6031
;      TELEX:  3723836 SEEDANDBERRY
;  INFORMATION FOR SEQ ID NO:  27:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  9 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:
;      TOPOLOGY:  linear
US-08-213-124-27

  Query Match           100.0%;  Score 19;  DB 1;  Length 9;
  Best Local Similarity  100.0%;  Pred. No. 3e+05;
  Matches    4;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 ILRG 4
              ||||
Db          1 ILRG 4
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```
RESULT 2
US-08-482-651-18
; Sequence 18, Application US/08482651
; Patent No. 5874409
;  GENERAL INFORMATION:
;    APPLICANT:  Victoria, Edward J.
;    APPLICANT:  Marquis, David M.
;    TITLE OF INVENTION:  aPL IMMUNOREACTIVE PEPTIDES, CONJUGATES
;    TITLE OF INVENTION:  THEREOF AND METHODS OF TREATMENT FOR aPL ANTIBODY-MEDIATED
;    TITLE OF INVENTION:  PATHOLOGIES
;    NUMBER OF SEQUENCES:  62
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  MORRISON & FOERSTER
;      STREET:  755 PAGE MILL ROAD
;      CITY:  PALO ALTO
;      STATE:  CA
;      COUNTRY:  USA
;      ZIP:  94304-1018
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/482,651
;      FILING DATE:  07-JUN-1995
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Park, Freddie K.
;      REGISTRATION NUMBER:  35,636
;      REFERENCE/DOCKET NUMBER:  25231-20061.00
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (415) 813-5600
;      TELEFAX:  (415) 494-0792
;      TELEX:  706141
;  INFORMATION FOR SEQ ID NO:  18:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  9 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    IMMEDIATE SOURCE:
;      LIBRARY:  xyz (details pg. 16)
;      CLONE:  3E11
US-08-482-651-18

  Query Match             100.0%;  Score 19;  DB 2;  Length 9;
  Best Local Similarity   100.0%;  Pred. No. 3e+05;
  Matches    4;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 ILRG 4
              ||||
Db          4 ILRG 7


RESULT 3
US-08-159-339A-315
; Sequence 315, Application US/08159339A
; Patent No. 6037135
;  GENERAL INFORMATION:
;    APPLICANT:  Kubo, Ralph T.
;    APPLICANT:  Grey, Howard M.
;    APPLICANT:  Sette, Alessandro
;    APPLICANT:  Celis, Esteban
;    TITLE OF INVENTION:  HLA Binding peptides and Their
;    TITLE OF INVENTION:  Uses
;    NUMBER OF SEQUENCES:  1254
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Townsend and Townsend and Crew LLP
;      STREET:  Two Embarcadero Center, Eighth Floor
;      CITY:  San Francisco
;      STATE:  CA
;      COUNTRY:  USA
;      ZIP:  94111-3834
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette
;      COMPUTER:  IBM Compatible
;      OPERATING SYSTEM:  DOS
;      SOFTWARE:  FastSEQ for Windows Version 2.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/159,339A
;      FILING DATE:  29-NOV-1993
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/926,666
;      FILING DATE:  07-AUG-1992
;      APPLICATION NUMBER:  US 08/027,746
;      FILING DATE:  05-MAR-1993
;      APPLICATION NUMBER:  US 08/103,396
;      FILING DATE:  06-AUG-1993
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Weber, Ellen Lauver
;      REGISTRATION NUMBER:  32,762
;      REFERENCE/DOCKET NUMBER:  018623-005030US
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (415) 576-0200
;      TELEFAX:  (415) 576-0300
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  315:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  9 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-159-339A-315

  Query Match             100.0%;  Score 19;  DB 3;  Length 9;
  Best Local Similarity   100.0%;  Pred. No. 3e+05;
  Matches    4;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 ILRG 4
              ||||
Db          1 ILRG 4


RESULT 4
US-08-660-092-21
; Sequence 21, Application US/08660092
; Patent No. 6207160
;  GENERAL INFORMATION:
;    APPLICANT:  Victoria, Edward J.
;    APPLICANT:  Marquis, David M.
;    APPLICANT:  Jones, David S.
;    APPLICANT:  Yu, Lin
;    TITLE OF INVENTION:  aPL IMMUNOREACTIVE PEPTIDES, CONJUGATES
;    TITLE OF INVENTION:  THEREOF AND METHODS OF TREATMENT FOR aPL ANTIBODY-MEDIATED
;    TITLE OF INVENTION:  PATHOLOGIES
;    NUMBER OF SEQUENCES:  216
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  MORRISON & FOERSTER
;      STREET:  755 PAGE MILL ROAD
;      CITY:  PALO ALTO
;      STATE:  CA
;      COUNTRY:  USA
;      ZIP:  94304-1018
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/660,092
;      FILING DATE:  06-JUN-1996
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
```

; NAME: Park, Freddie K.
; REGISTRATION NUMBER: 35,636
; REFERENCE/DOCKET NUMBER: 25231-20061.20
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 813-5600
; TELEFAX: (415) 494-0792
; TELEX: 706141
; INFORMATION FOR SEQ ID NO: 21:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 9 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: xyz (details pg. 16)
; CLONE: 3E11
US-08-660-092-21

Query Match 100.0%; Score 19; DB 3; Length 9;
Best Local Similarity 100.0%; Pred. No. 3e+05;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ILRG 4
||||
Db 4 ILRG 7

RESULT 5
US-09-160-513-21
; Sequence 21, Application US/09160513
; Patent No. 6410775
; GENERAL INFORMATION:
; APPLICANT: Victoria, Edward J.
; APPLICANT: Marquis, David M.
; APPLICANT: Jones, David S.
; APPLICANT: Yu, Lin
; TITLE OF INVENTION: aPL IMMUNOREACTIVE PEPTIDES, CONJUGATES THEREOF AND METHODS O
; NUMBER OF SEQUENCES: 225
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORRISON & FOERSTER
; STREET: 755 PAGE MILL ROAD
; CITY: PALO ALTO
; STATE: CA
; COUNTRY: USA
; ZIP: 94304-1018
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/160,513
; FILING DATE: 1998-DEC-24
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: CATHERINE M. POLIZZI
; REGISTRATION NUMBER: 40,130
; REFERENCE/DOCKET NUMBER: 25231-20061.01
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (650) 813-5600
; TELEFAX: (650) 494-0792
; TELEX: 706141
; INFORMATION FOR SEQ ID NO: 21:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 9 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: xyz
; CLONE: 3E11
US-09-160-513-21

Query Match 100.0%; Score 19; DB 4; Length 9;
Best Local Similarity 100.0%; Pred. No. 3e+05;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ILRG 4
||||
Db 4 ILRG 7

RESULT 6
US-08-591-502B-23
; Sequence 23, Application US/08591502B
; Patent No. 6607727
; GENERAL INFORMATION:
; APPLICANT: Chisari, Francis V.
; TITLE OF INVENTION: Peptides for Inducing Cytotoxic T
; Lymphocyte Responses to Hepatitis B Virus
; NUMBER OF SEQUENCES: 99
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew LLP
; STREET: Two Embarcadero Center, Eighth Floor
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94111-3834
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/591,502B
; FILING DATE: 20-May-1996
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/749,540
; FILING DATE: 26-AUG-1991
; APPLICATION NUMBER: US 07/935,898
; FILING DATE: 26-AUG-1992
; APPLICATION NUMBER: US 08/100,870
; FILING DATE: 02-AUG-1993
; APPLICATION NUMBER: WO PCT/US94/08685
; FILING DATE: 01-AUG-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Weber, Ellen Lauver
; REGISTRATION NUMBER: 32,762
; REFERENCE/DOCKET NUMBER: 014740-000230US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 576-0200
; TELEFAX: (415) 576-0300
; INFORMATION FOR SEQ ID NO: 23:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 9 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; SEQUENCE DESCRIPTION: SEQ ID NO: 23:
US-08-591-502B-23

Query Match 100.0%; Score 19; DB 4; Length 9;
Best Local Similarity 100.0%; Pred. No. 3e+05;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ILRG 4
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Db 2 ILRG 5

RESULT 7
US-08-591-502B-32
; Sequence 32, Application US/08591502B
; Patent No. 6607727

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;  GENERAL INFORMATION:
;       APPLICANT: Chisari, Francis V.
;       TITLE OF INVENTION: Peptides for Inducing Cytotoxic T
;                           Lymphocyte Responses to Hepatitis B Virus
;       NUMBER OF SEQUENCES: 99
;       CORRESPONDENCE ADDRESS:
;            ADDRESSEE: Townsend and Townsend and Crew LLP
;            STREET: Two Embarcadero Center, Eighth Floor
;            CITY: San Francisco
;            STATE: California
;            COUNTRY: USA
;            ZIP: 94111-3834
;       COMPUTER READABLE FORM:
;            MEDIUM TYPE: Floppy disk
;            COMPUTER: IBM PC compatible
;            OPERATING SYSTEM: PC-DOS/MS-DOS
;            SOFTWARE: PatentIn Release #1.0, Version #1.25
;       CURRENT APPLICATION DATA:
;            APPLICATION NUMBER: US/08/591,502B
;            FILING DATE: 20-May-1996
;            CLASSIFICATION: <Unknown>
;       PRIOR APPLICATION DATA:
;            APPLICATION NUMBER: US 07/749,540
;            FILING DATE: 26-AUG-1991
;            APPLICATION NUMBER: US 07/935,898
;            FILING DATE: 26-AUG-1992
;            APPLICATION NUMBER: US 08/100,870
;            FILING DATE: 02-AUG-1993
;            APPLICATION NUMBER: WO PCT/US94/08685
;            FILING DATE: 01-AUG-1994
;       ATTORNEY/AGENT INFORMATION:
;            NAME: Weber, Ellen Lauver
;            REGISTRATION NUMBER: 32,762
;            REFERENCE/DOCKET NUMBER: 014740-000230US
;       TELECOMMUNICATION INFORMATION:
;            TELEPHONE: (415) 576-0200
;            TELEFAX: (415) 576-0300
;   INFORMATION FOR SEQ ID NO: 32:
;       SEQUENCE CHARACTERISTICS:
;            LENGTH: 9 amino acids
;            TYPE: amino acid
;            STRANDEDNESS: single
;            TOPOLOGY: linear
;       MOLECULE TYPE: peptide
;       SEQUENCE DESCRIPTION: SEQ ID NO: 32:
US-08-591-502B-32

  Query Match           100.0%;  Score 19;  DB 4;  Length 9;
  Best Local Similarity  100.0%;  Pred. No. 3e+05;
  Matches    4;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 ILRG 4
              ||||
Db          2 ILRG 5


RESULT 8
US-09-719-243-20
; Sequence 20, Application US/09719243
; Patent No. 6682741
; GENERAL INFORMATION:
;  APPLICANT: National Institutes of Health
;  TITLE OF INVENTION: B2 Microglobulin Fusion Proteins and High Affinity
;  TITLE OF INVENTION:  Variants
;  FILE REFERENCE: 52590
;  CURRENT APPLICATION NUMBER: US/09/719,243
;  CURRENT FILING DATE:  2001-05-21
;  PRIOR APPLICATION NUMBER: 60/088,813
;  PRIOR FILING DATE: 1998-06-10
;  NUMBER OF SEQ ID NOS: 20
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 20
;   LENGTH: 9
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence: influenza NP
;   OTHER INFORMATION: 265-273
US-09-719-243-20

  Query Match           100.0%;  Score 19;  DB 4;  Length 9;
  Best Local Similarity  100.0%;  Pred. No. 3e+05;
  Matches    4;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 ILRG 4
              ||||
Db          1 ILRG 4


RESULT 9
US-08-416-950-3
; Sequence 3, Application US/08416950
; Patent No. 5780036
;  GENERAL INFORMATION:
;    APPLICANT:  CHISARI, Francis V.
;    TITLE OF INVENTION:  PEPTIDES FOR INDUCING CYTOTOXIC T
;    TITLE OF INVENTION:  LYMPHOCYTE RESPONSES TO HEPATITIS B VIRUS
;    NUMBER OF SEQUENCES:  11
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Townsend and Townsend Khourie and Crew
;      STREET:  One Market Plaza, Steuart Street Tower
;      CITY:  San Francisco
;      STATE:  CA
;      COUNTRY:  U.S.A.
;      ZIP:  94105-1492
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/416,950
;      FILING DATE:
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US
;      FILING DATE:
;      APPLICATION NUMBER:  US 07/935,898
;      FILING DATE:  26-AUG-1992
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/749,540
;      FILING DATE:  26-AUG-1991
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Parmelee, Steven W.
;      REGISTRATION NUMBER:  31,990
;      REFERENCE/DOCKET NUMBER:  14740-2-2
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (206) 467-9600
;      TELEFAX:  (415) 543-5043
;  INFORMATION FOR SEQ ID NO:  3:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  10 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-416-950-3

  Query Match           100.0%;  Score 19;  DB 1;  Length 10;
  Best Local Similarity  100.0%;  Pred. No. 60;
  Matches    4;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 ILRG 4
              ||||
Db          1 ILRG 4
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```
RESULT 10
US-08-469-830-3
; Sequence 3, Application US/08469830
; Patent No. 5932224
;  GENERAL INFORMATION:
;    APPLICANT:  CHISARI, Francis V.
;    TITLE OF INVENTION:  PEPTIDES FOR INDUCING CYTOTOXIC T
;    TITLE OF INVENTION:  LYMPHOCYTE RESPONSES TO HEPATITIS B VIRUS
;    NUMBER OF SEQUENCES:  11
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Townsend and Townsend Khourie and Crew
;      STREET:  One Market Plaza, Steuart Street Tower
;      CITY:  San Francisco
;      STATE:  CA
;      COUNTRY:  U.S.A.
;      ZIP:  94105-1492
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/469,830
;      FILING DATE:  06-JUN-1995
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/100,870
;      FILING DATE:  02-AUG-1993
;      APPLICATION NUMBER:  US 07/935,898
;      FILING DATE:  26-AUG-1992
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/749,540
;      FILING DATE:  26-AUG-1991
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Parmelee, Steven W.
;      REGISTRATION NUMBER:  31,990
;      REFERENCE/DOCKET NUMBER:  14740-2-2
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (206) 467-9600
;      TELEFAX:  (415) 543-5043
;  INFORMATION FOR SEQ ID NO:  3:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  10 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-469-830-3

  Query Match             100.0%;  Score 19;  DB 2;  Length 10;
  Best Local Similarity   100.0%;  Pred. No. 60;
  Matches    4;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 ILRG 4
              ||||
Db          1 ILRG 4


RESULT 11
US-08-159-339A-324
; Sequence 324, Application US/08159339A
; Patent No. 6037135
;  GENERAL INFORMATION:
;    APPLICANT:  Kubo, Ralph T.
;    APPLICANT:  Grey, Howard M.
;    APPLICANT:  Sette, Alessandro
;    APPLICANT:  Celis, Esteban
;    TITLE OF INVENTION:  HLA Binding peptides and Their
;    TITLE OF INVENTION:  Uses
;    NUMBER OF SEQUENCES:  1254
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Townsend and Townsend and Crew LLP
;      STREET:  Two Embarcadero Center, Eighth Floor
;      CITY:  San Francisco
;      STATE:  CA
;      COUNTRY:  USA
;      ZIP:  94111-3834
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette
;      COMPUTER:  IBM Compatible
;      OPERATING SYSTEM:  DOS
;      SOFTWARE:  FastSEQ for Windows Version 2.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/159,339A
;      FILING DATE:  29-NOV-1993
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/926,666
;      FILING DATE:  07-AUG-1992
;      APPLICATION NUMBER:  US 08/027,746
;      FILING DATE:  05-MAR-1993
;      APPLICATION NUMBER:  US 08/103,396
;      FILING DATE:  06-AUG-1993
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Weber, Ellen Lauver
;      REGISTRATION NUMBER:  32,762
;      REFERENCE/DOCKET NUMBER:  018623-005030US
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (415) 576-0200
;      TELEFAX:  (415) 576-0300
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  324:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  10 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-159-339A-324

  Query Match             100.0%;  Score 19;  DB 3;  Length 10;
  Best Local Similarity   100.0%;  Pred. No. 60;
  Matches    4;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 ILRG 4
              ||||
Db          2 ILRG 5


RESULT 12
US-08-591-502B-3
; Sequence 3, Application US/08591502B
; Patent No. 6607727
;  GENERAL INFORMATION:
;       APPLICANT: Chisari, Francis V.
;       TITLE OF INVENTION: Peptides for Inducing Cytotoxic T
;                           Lymphocyte Responses to Hepatitis B Virus
;       NUMBER OF SEQUENCES: 99
;       CORRESPONDENCE ADDRESS:
;            ADDRESSEE: Townsend and Townsend and Crew LLP
;            STREET: Two Embarcadero Center, Eighth Floor
;            CITY: San Francisco
;            STATE: California
;            COUNTRY: USA
;            ZIP: 94111-3834
;       COMPUTER READABLE FORM:
;            MEDIUM TYPE: Floppy disk
;            COMPUTER: IBM PC compatible
;            OPERATING SYSTEM: PC-DOS/MS-DOS
;            SOFTWARE: PatentIn Release #1.0, Version #1.25
;       CURRENT APPLICATION DATA:
;            APPLICATION NUMBER: US/08/591,502B
;            FILING DATE: 20-May-1996
;            CLASSIFICATION: <Unknown>
;       PRIOR APPLICATION DATA:
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;            APPLICATION NUMBER: US 07/749,540
;            FILING DATE: 26-AUG-1991
;            APPLICATION NUMBER: US 07/935,898
;            FILING DATE: 26-AUG-1992
;            APPLICATION NUMBER: US 08/100,870
;            FILING DATE: 02-AUG-1993
;            APPLICATION NUMBER: WO PCT/US94/08685
;            FILING DATE: 01-AUG-1994
;       ATTORNEY/AGENT INFORMATION:
;            NAME: Weber, Ellen Lauver
;            REGISTRATION NUMBER: 32,762
;            REFERENCE/DOCKET NUMBER: 014740-000230US
;       TELECOMMUNICATION INFORMATION:
;            TELEPHONE: (415) 576-0200
;            TELEFAX: (415) 576-0300
;   INFORMATION FOR SEQ ID NO: 3:
;       SEQUENCE CHARACTERISTICS:
;            LENGTH: 10 amino acids
;            TYPE: amino acid
;            STRANDEDNESS: <Unknown>
;            TOPOLOGY: linear
;       MOLECULE TYPE: peptide
;       SEQUENCE DESCRIPTION: SEQ ID NO: 3:
US-08-591-502B-3

  Query Match             100.0%;  Score 19;  DB 4;  Length 10;
  Best Local Similarity   100.0%;  Pred. No. 60;
  Matches    4;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 ILRG 4
              ||||
Db          1 ILRG 4


RESULT 13
US-08-526-710-4
; Sequence 4, Application US/08526710
; Patent No. 5622699
;  GENERAL INFORMATION:
;    APPLICANT:  Ruoslahti, Erkki
;    APPLICANT:  Pasqualini, Renata
;    TITLE OF INVENTION:  Method of Identifying Molecules That
;    TITLE OF INVENTION:  Home to a Selected Organ In Vivo
;    NUMBER OF SEQUENCES:  44
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Campbell and Flores
;      STREET:  4370 La Jolla Village Drive, Suite 700
;      CITY:  San Diego
;      STATE:  California
;      COUNTRY:  United States
;      ZIP:  92122
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/526,710
;      FILING DATE:  11-SEP-1995
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Campbell, Cathryn A.
;      REGISTRATION NUMBER:  31,815
;      REFERENCE/DOCKET NUMBER:  P-LJ 1779
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (619) 535-9001
;      TELEFAX:  (619) 535-8949
;  INFORMATION FOR SEQ ID NO:  4:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  8 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-526-710-4

  Query Match             94.7%;  Score 18;  DB 1;  Length 8;
  Best Local Similarity   75.0%;  Pred. No. 3e+05;
  Matches    3;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 ILRG 4
              :|||
Db          2 VLRG 5


RESULT 14
US-08-862-855-4
; Sequence 4, Application US/08862855
; Patent No. 6068829
;  GENERAL INFORMATION:
;    APPLICANT:  Ruoslahti, Erkki
;    APPLICANT:  Pasqualini, Renata
;    TITLE OF INVENTION:  Method of Identifying Molecules That
;    TITLE OF INVENTION:  Home to a Selected Organ In Vivo
;    NUMBER OF SEQUENCES:  44
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Campbell & Flores LLP
;      STREET:  4370 La Jolla Village Drive, Suite 700
;      CITY:  San Diego
;      STATE:  California
;      COUNTRY:  United States
;      ZIP:  92122
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/862,855
;      FILING DATE:
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/526,710
;      FILING DATE:  11-SEP-1995
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/813,273
;      FILING DATE:  10-MAR-1997
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Campbell, Cathryn A.
;      REGISTRATION NUMBER:  31,815
;      REFERENCE/DOCKET NUMBER:  P-LJ 2621
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (619) 535-9001
;      TELEFAX:  (619) 535-8949
;  INFORMATION FOR SEQ ID NO:  4:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  8 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-862-855-4

  Query Match             94.7%;  Score 18;  DB 3;  Length 8;
  Best Local Similarity   75.0%;  Pred. No. 3e+05;
  Matches    3;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 ILRG 4
              :|||
Db          2 VLRG 5


RESULT 15
US-09-226-985-4
; Sequence 4, Application US/09226985
; Patent No. 6296832
;  GENERAL INFORMATION:
;    APPLICANT:  Ruoslahti, Erkki
```

; APPLICANT: Pasqualini, Renata
; TITLE OF INVENTION: Molecules That Home to a Selected Organ In Vivo
; NUMBER OF SEQUENCES: 44
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Campbell & Flores LLP
; STREET: 4370 La Jolla Village Drive, Suite 700
; CITY: San Diego
; STATE: California
; COUNTRY: United States
; ZIP: 92122
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/226,985
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/526,710
; FILING DATE: 11-SEP-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/813,273
; FILING DATE: 10-MAR-1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/862,855
; FILING DATE: 23-MAY-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Campbell, Cathryn A.
; REGISTRATION NUMBER: 31,815
; REFERENCE/DOCKET NUMBER: P-LJ 3423
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 535-9001
; TELEFAX: (619) 535-8949
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 8 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-09-226-985-4

Query Match 94.7%; Score 18; DB 3; Length 8;
Best Local Similarity 75.0%; Pred. No. 3e+05;
Matches 3; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

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Qy          1 ILRG 4
              :|||
Db          2 VLRG 5
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Job time : 13.4444 secs